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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/003,345	5. 12/06/2001		Jang Geun Oh	LT-0006	5261
34610	7590	09/21/2005		EXAMINER	
FLESHNEI P.O. BOX 22		, LLP	ELAMIN, ABDELMONIEM I		
CHANTILL		0153		ART UNIT	PAPER NUMBER
				2116	

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary  The MAILING DATE of this communication app Period for Reply	IS SET TO EXPIRE 3 MONTH( ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	S) OR THIRTY (30) DAYS,  N. nely filed the mailing date of this communication.				
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A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 27 Ju  - This peties in FINAL  - CANTA This	ne 2005.					
· · · · · · · · · · · · · · · · · · ·	2a) This action is <b>FINAL</b> . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		J.J. 210.				
4)	vn from consideration. rejected. d to.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accention accention accention and accention accention accention accention accention accention accention accention accention.  Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the Examine.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)  Office Ac	6)  Other:					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 8-9, 12-15, 18-23, 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parrish, US. Pat. No. 6,704,879 in view of Suzuki et al, US. Pat. No. 5,88,004.
- 3. Claims 1, 12, 19, 21, 26, Parrish an apparatus having a CPU [Fig. 1] wherein the improvement comprises:

a clock generator generating a first clock signal for the CPU [not shown but this should be the case], and a second clock generator generating a second clock, wherein the first and second clock signals are two distinct clock signals and have different frequencies [Fig. 1 and related disclosure]; and

a bridge controller [106 of Fig. 1] comprising a logic device for adjusting the second clock signal based on a power source and independent of the first clock signal [abstract, col. 1, lines 35-50].

Parrish fails to teach a clock generator generating both a first clock and a second clock.

Suzuki teaches a clock generator circuit generating a first clock [CLK1 of Fig. 6] and a second clock [CLK2 of Fig. 1], wherein the first and second clock signals are two distinct clock signals and have different frequencies [abstract].

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Parrish to include a clock generator generating both a first clock and a second clock, because it eliminates the need for having two clock generators and hence reduces the unit price of the chip [see Suzuki, col. 17, 52-65].

- 4. Claims 2, 13, Parrish teaches the bridge controller controls a clock speed of a bus for data communication among a plurality of peripheral devices of the apparatus [Fig. 1].
- 5. Claims 3, 18, 20, 22, 27, Parrish teaches the power source is one of AC power mode and battery power mode [130, 129 of Fig. 1].
- 6. Claims 8, Parrish teaches the logic device increases a frequency of the second clock signal in an AC power mode and outputs the second clock signal without a frequency adjustment in a battery power mode [abstract].
- 7. Claim 9, Parrish teaches the logic device outputs the second clock signal in a battery power mode without a frequency adjustment [abstract].
- 8. Claims 14-15, 23, Suzuki teaches the clock adjustor Es a phase locked loop (PLL) [see Suzuki, Fig. 6 and related disclosure].
- 9. Claims 28, Parrish teaches the second higher frequency clock signal is selectively output independent of the first higher frequency clock signal, and wherein the second higher frequency clock signal is selectively output by being output as is or reduced according to the power mode signal [abstract, col. 1, lines 35-50].
- 10. Claims 29, Parrish teaches the first device is a processor and the second device is a bridge controller [Fig. 1].

Claims 30, Parrish teaches the second higher frequency clock signal has at least two different frequencies selected in accordance with the power mode signal [abstract, col. 1, lines 35-50].

### Allowable Subject Matter

12. Claims 5-7, 10-11, 16-17, 25 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A Elamin whose telephone number is (571) 272-3674. The examiner can normally be reached on MON-FRI 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Elamin

Primary Examiner
Art Unit 2116

September 19, 2005